

## IN THE CLAIMS

1. (currently amended) A method for configuring input/output connections in a ~~programmable logical~~ PSOC (programmable system-on-a-chip) device, comprising:
  - displaying a graphical user interface enabled for said configuring of said ~~PSOC programmable logical~~ device;
  - selecting a configuration presentation from said graphical user interface;
  - selecting an input/output connection from said programmable logical device for configuration, wherein said input/output connection comprises a pin for said ~~PSOC programmable logical~~ device; and
  - selecting options for said configuring of said input/output connections from a selection set presented in said graphical user interface.
2. (currently amended) A method as described in Claim 1, wherein said graphical user interface is tailored to a specific ~~PSOC programmable logical~~ device.
3. (currently amended) A method as described in Claim 1, wherein said ~~PSOC programmable logical~~ device is a programmable microcontroller device-system-on-a-chip.
4. (currently amended) A method as described in Claim 1, wherein said configuration presentation is graphical presentation of a representation of said ~~PSOC programmable logic~~ device.
5. (original) A method as described in Claim 1, wherein said configuration presentation is tabular presentation.
6. (original) A method as described in Claim 1, wherein said selecting of an input/output connection comprises mouse-clicking a graphical representation of said input/output connection.

7. (original) A method as described in Claim 1, wherein said selecting of an input/output connection comprises mouse-clicking a cell of a tabular representation of said input/output connection.
8. (original) A method as described in Claim 1, wherein said selecting of options comprises mouse-clicking a selection from a pop-up window.
9. (original) A method as described in Claim 8, wherein said options are presented in a drop-down list.
10. (currently amended) A system for configuring input/output connections in a PSOCprogrammable logical (programmable system-on-a-chip) device, comprising:
- a computing device;
  - a graphical display device communicatively coupled with said computing device;
  - a graphical user interface implemented within said computing device and presented in said graphical display device;
  - a graphical cursor control device communicatively coupled with said computing device and enabled to input commands to said computing device through said graphical user interface; and
  - a PSOCprogrammable logic device electronically and communicatively coupled with said computing device,
- wherein selecting specific points with said graphical cursor control device on said graphical user interface results in pin configuration data being generated for a pin of said PSOCprogrammable logic device.
11. (original) A system as described in Claim 10, wherein said specific points relate to integrated circuit input/output pins.

12. (original) A system as described in Claim 10, wherein said computing device is a personal computer.
13. (canceled)
14. (original) A system as described in Claim 10, wherein said graphical user interface presents configuration options pertinent to said input/output connections.
15. (original) A system as described in Claim 14, wherein said configuration options pertinent to said input/output connections presented in said graphical user interface are presented in pop-up windows.
16. (original) A system as described in Claim 14, wherein said configuration options pertinent to said input/output connections presented in said graphical user interface are presented in drop-down lists.
17. (currently amended) A system as described in Claim 10, wherein said PSOCprogrammable logic device is a programmable microcontroller device system-on-a-chip.
18. (currently amended) A graphical user interface for aiding the configuration of a PSOC (programmable system-on-a-chip) programmable logic device, comprising:
- a device configuration window;
  - a user-selectable pin-out window in said device configuration window;
  - a pin configuration parameters table;
  - a pop-up window, comprising selection options pertinent to the configuration of said input/output connections; and
  - a drop-down list comprising selection options pertinent to the configuration of said input/output connections wherein said graphical user interface is enabled to accept user input commands in the process of configuring said PSOCprogrammable

~~logic device~~, and wherein said input/output connections comprise pins of said PSOCprogrammable logical device.

19. (original) A graphical user interface as described in Claim 18, wherein said graphical user interface is enabled to accept mouse-click commands as said user input.

20. (currently amended) A graphical user interface as described in Claim 18, wherein said device configuration window is specifically tailored to program input/output pin configurations on a programmable microcontroller device-system-on-a-chip.

21. (currently amended) A graphical user interface as described in Claim 18, wherein said user-selectable pin-out window is graphically configured in the form of said PSOCprogrammable logic device.

22. (original) A graphical user interface as described in Claim 18, wherein said pop-up window comprises selection options pertinent to the configuration of the input/output pins of said programmable logic device.

23. (original) A graphical user interface as described in Claim 22, wherein said pop-up window is enabled to appear when an input/output pin is selected by a mouse-click in said pin-out window.

24. (original) A graphical user interface as described in Claim 22, wherein said selection options in said pop-up window are selectable by a mouse-click.

25. (original) A graphical user interface as described in Claim 18, wherein said pin configuration parameters table comprises selection options pertinent to the configuration of said input/output connections.

26. (original) A graphical user interface as described in Claim 18, wherein said drop-down list is enabled to appear when a tabular listing associated with said input/output connections is selected by mouse-click in said pin configuration parameters table.
27. (original) A graphical user interface as described in Claim 18, wherein said drop-down list comprises selection options pertinent to the configuration of said input/output connections.
28. (original) A graphical user interface as described in Claim 18, wherein said pop-up window disappears from said graphical user interface when a mouse-click is made outside said pop-up window.
29. (currently amended) In a computer system, a tool for programming a PSOC (programmable system-on-a-chip) ~~an~~ integrated circuit comprising:
- a graphical representation of said integrated circuit displayed on a display screen, said graphical representation comprising input/output pins; and
  - a window displayed in response to a selection of an input/output pin, wherein said window comprises a list of selectable attributes for assigning said input/output pin and wherein both pin type and drive type can be assigned to said input/output pin from said list of selectable attributes.
30. (original) A tool as described in Claim 29 further comprising a cursor control device for providing said selection of said input/output pin.
31. (original) A tool as described in Claim 30 wherein said cursor control device is also for providing a selection of said list of selectable attributes.
32. (original) A tool as described in Claim 30 wherein said window automatically disappears if said cursor control device makes a selection outside of said window.

33. (original) A tool as described in Claim 29 further comprising a tabular display of information in cells comprising, for each of said input/output pins, a column for pin name, a column for pin type and a column for drive type.

34. (original) A tool as described in Claim 33 wherein said window is also displayed in response to a selection of a cell of said tabular display of information.